

Applicant: Wooh, *et al.*
For: BUILDING CONSTRUCTION AND METHOD USING TENSION
SUPPORT METHOD

1 1. A building construction using tensional support members comprising: a
2 support structure for bearing a compressive load; a support beam borne by said structure;
3 at least one enclosure cell; and at least one tension member for suspending a said
4 enclosure cell from said support beam.

1 2. The building structure of claim 1 in which said support structure includes
2 a column.

1 3. The building structure of claim 1 in which said support structure includes
2 two columns.

1 4. The building structure of claim 1 in which said support structure includes
2 at least three columns.

1 5. The building structure of claim 1 in which said support beam includes a
2 linear beam.

1 6. The building structure of claim 1 in which said support beam includes an
2 annular beam.

1 7. The building structure of claim 1 in which said support beams includes a
2 number of linear beams.

1 8. The building structure of claim 1 in which said support beam includes an
2 inner and an outer annular beam and an interconnection structure connecting the two.

1 9. The building structure of claim 1 in which said support beam includes a
2 tension member including a cable element.

1 10. The building structure of claim 1 in which said support beam includes a
2 number of cable elements suspending each said enclosure cell.

1 11. The building structure of claim 1 in which said support beam includes a
2 fiber reinforced plastic material.

1 12. The building structure of claim 1 in which said enclosure cell includes a
2 wall and floor.

1 13. The building structure of claim 1 in which said support beam includes
2 fiber reinforced plastic material.

TET-0649830

1 14. A method of building using tensioned support members comprising
2 providing a support structure for bearing a compressional load; installing a support beam
3 on said support structure; providing at least one enclosure cell; and suspending each
4 enclosure cell with a tension member from said support beam.

1 15. The method of claim 14 further including suspending additional enclosure
2 cells from said support beam.

1 16. The method of claim 14 in which said support structure includes at least
2 two columns.

1 17. The method of claim 14 in which said support beam includes at least two
2 beams.

1 18. The method of claim 14 in which said support beam includes a linear
2 beam.

1 19. The method of claim 14 in which said support beam includes an annular
2 beam.

1 20. The method of claim 14 in which said support beam includes an inner and
2 an outer annular beam and an interconnection structure between the line.